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Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Mon Jun 11 12:35:42 EDT 2007

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Application No: 10802425 Version No: 2.0

**Input Set:****Output Set:**

**Started:** 2007-06-05 17:46:02.021  
**Finished:** 2007-06-05 17:46:03.568  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 547 ms  
**Total Warnings:** 16  
**Total Errors:** 3  
**No. of SeqIDs Defined:** 36  
**Actual SeqID Count:** 36

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (24)
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# SEQUENCE LISTING

<110> BASSLER, BONNIE L.  
DAMMEL, CAROL  
SCHAUDER, STEPHAN  
SHOKAT, KEVAN  
STEIN, JEFFREY  
SURETTE, MICHAEL G.

<120> COMPOUNDS AND METHODS FOR REGULATING BACTERIAL GROWTH  
AND PATHOGENESIS

<130> 4555-128.1.1 US

<140> 10802425

<141> 2004-03-17

<150> 10/802,425

<151> 2004-03-17

<150> 10/300,818

<151> 2002-11-19

<150> 09/853,832

<151> 2001-05-10

<150> 60/203,000

<151> 2000-05-10

<150> 60/254,398

<151> 2000-12-07

<160> 36

<170> PatentIn Ver. 3.3

<210> 1

<211> 519

<212> DNA

<213> *Vibrio harveyi*

<400> 1

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cctgagttga acgaatacca atgtggtaca gcagcgatgc actctctgga tgaagcgaag 420
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<210> 2

<211> 516

<212> DNA

<213> *Escherichia coli*

<400> 2

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tgcgtgccga acaaagaagt gatgccagaa agagggatcc ataccctgga gcacctgttt 180
gctggtttta tgcgtaacca tcttaacggg aatgggtgtag agattatcga tatctcgcca 240
atgggctgcc gcaccggttt ttatatgagt ctgattggta cgccagatga gcagcgtgtt 300
gctgatgcct ggaaagcggc aatggaagac gtgctgaaag tgcaggatca gaatcagatc 360
ccggaactga acgtctacca gtgtggcact taccagatgc actcgttgca ggaagcgcag 420
gatattgcgc gtagcattct ggaacgtgac gtacgcatca acagcaacga agaactggca 480
ctgccgaaag agaagttgca ggaactgcac atctag 516
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<210> 3

<211> 110

<212> DNA

<213> *Salmonella typhimurium*

<400> 3

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<210> 4

<211> 492

<212> DNA

<213> *Salmonella typhimurium*

<400> 4

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cgcatggcga cgcaatcacg tgtttgatct gcgtttttgc attccgaaca aagaagtgat 120
gccggaaaaa gggattcata cgcttgagca tctgtttgct ggctttatgc gcgaccacct 180
caacggtaac ggcgttgaga ttatcgatat ctgcgcgatg ggctgccgca ccggctttta 240
catgagcctg attggcacgc cggacgagca gcgtgttgcc gacgcctgga aagcggcgat 300
ggcggatgtg ctgaaagtgc aggatcaaaa ccagatcccg gagctgaacg tttaccagtg 360
cgggtacgtat cagatgcact cgctcagtga agcgcaggac attgcccgtc atattctgga 420
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<210> 5

<211> 504

<212> DNA

<213> *Haemophilus influenzae*

<400> 5

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tgtattccaa acaaagaaat tctttcccca aaaggcattc atacacttga acatttat 180
gctggattta tgcgcgatca tttaaatggc gatagcatag aaattattga tatttctccg 240
atgggatgtc gcacgggatt ttatatgtct ttgattggca caccaaatac acagaaagt 300
tctgaggctt ggtagcttc aatgcaagat gttttagggtg tacaagatca agcttctatt 360
cctgaattaa atatctatca atgcggaagc tatacggaac attccttaga agatgcacac 420
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ctcgataatt ccttattaaa atag 504
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<210> 6  
<211> 468  
<212> DNA  
<213> *Helicobacter pylori*

<400> 6  
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ccttatgtgc gtgtcgctga tcgcaaaaag ggcgttaatg gggatttgat tgtcaaatac 120  
gatgtgcgct tcaagcagcc caaccaagat cacatggaca tgcctagcct acattcttta 180  
gagcatttag tcgctgaaat tatccgcaac catgccagtt atgtcgtgga ttggtcgcct 240  
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ttagaggttt tagaaaagac catgcaagat gtgttaaagg ctacagaagt gcctgccagc 360  
aatgaaaagc aatgcggttg ggcggctaac cacactttag agggtgctaa ggatttagcg 420  
cgcgcttttt tagacaaacg cgctgagtgg tctgaagtgg gggtttga 468

<210> 7  
<211> 482  
<212> DNA  
<213> *Bacillus subtilis*

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tgccagccaa ataaacaggc gatgaagcct gacaccattc acacactcga gcatttgctc 180  
gcgtttacga ttcgtttctca cgctgagaaa tacgatcatt ttgatatcat tgatatttct 240  
ccaatgggct gccagacagg ctattatcta gttgtgagcg gagagccgac atcagcggaa 300  
atcgttgatc tgcttgaaga cacaatgaag gaagcggtag agattacaga aatacctgct 360  
gcgaatgaaa agcagtgcgg ccaagcgaag cttcatgatc tggaaaggcg taaacgttta 420  
atgcgtttct ggctttcaca ggataaagaa gaattgctaa aagtatttgg ctaaaataga 480  
aa 482

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<211> 537  
<212> DNA  
<213> *Borrelia burgdorferi*

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aagaaaagat acctttgaaa atgtaatatt tactacaata gacattagaa tcaaagctcc 180  
caacatcgaa ccaataattg aaaacgcagc aatacataca atagagcaca taggagctac 240  
tttacttaga aataatgaag tttggaccga aaaaatagta tattttggcc ctatgggatg 300  
cagaactggt ttttacttaa taatttttgg agactatgaa agtaaagatc ttgttgactt 360  
agtctcatgg cttttttccg aaatcgtaaa tttttcagaa cctatcccag gcgcaagtga 420  
taaggaatgc ggaaattaca aagaacataa ccttgatatg gctaaatatg aatcttctaa 480  
atacttacia atattaaaca atattaaaga agaaaattta aaatatcctt agctcat 537

<210> 9  
<211> 519  
<212> DNA  
<213> *Vibrio cholerae*

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 gcgggcttta tgcgcaatca ccttaacggc agccaagtgg agatcatcga tatttcacca 240  
 atgggttgcc gtacagggtt ctacatgagc ttgattggtg cgccgacaga acagcaagtg 300  
 gcacaagcat ggctagccgc aatgcaagat gtgttgaaag ttgaaagcca agagcaaatt 360  
 cctgagctga atgagtacca gtgcggcact gcggcgatgc actcgctcga agaagccaaa 420  
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<210> 10

<211> 172

<212> PRT

<213> *Vibrio harveyi*

<400> 10

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 20 25 30

Ile Thr Val Phe Asp Leu Arg Phe Thr Ala Pro Asn Lys Asp Ile Leu  
 35 40 45

Ser Glu Lys Gly Ile His Thr Leu Glu His Leu Tyr Ala Gly Phe Met  
 50 55 60

Arg Asn His Leu Asn Gly Asp Ser Val Glu Ile Ile Asp Ile Ser Pro  
 65 70 75 80

Met Gly Cys Arg Thr Gly Phe Tyr Met Ser Leu Ile Gly Thr Pro Ser  
 85 90 95

Glu Gln Gln Val Ala Asp Ala Trp Ile Ala Ala Met Glu Asp Val Leu  
 100 105 110

Lys Val Glu Asn Gln Asn Lys Ile Pro Glu Leu Asn Glu Tyr Gln Cys  
 115 120 125

Gly Thr Ala Ala Met His Ser Leu Asp Glu Ala Lys Gln Ile Ala Lys  
 130 135 140

Asn Ile Leu Glu Val Gly Val Ala Val Asn Lys Asn Asp Glu Leu Ala  
 145 150 155 160

Leu Pro Glu Ser Met Leu Arg Glu Leu Arg Ile Asp  
 165 170

<210> 11

<211> 171

<212> PRT

<213> *Escherichia coli*

<400> 11

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Ile Thr Val Phe Asp Leu Arg Phe Cys Val Pro Asn Lys Glu Val Met			
35	40	45	
Pro Glu Arg Gly Ile His Thr Leu Glu His Leu Phe Ala Gly Phe Met			
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Arg Asn His Leu Asn Gly Asn Gly Val Glu Ile Ile Asp Ile Ser Pro			
65	70	75	80
Met Gly Cys Arg Thr Gly Phe Tyr Met Ser Leu Ile Gly Thr Pro Asp			
85	90	95	
Glu Gln Arg Val Ala Asp Val Trp Lys Ala Ala Met Glu Asp Val Leu			
100	105	110	
Lys Val Gln Asp Gln Asn Gln Ile Pro Glu Leu Asn Val Tyr Gln Cys			
115	120	125	
Gly Thr Tyr Gln Met His Ser Leu Gln Glu Ala Gln Asp Ile Ala Arg			
130	135	140	
Ser Ile Leu Glu Arg Asp Val Arg Ile Asn Ser Asn Glu Glu Leu Ala			
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Leu Pro Lys Glu Lys Leu Gln Glu Leu His Ile			
165	170		

<210> 12  
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 <212> PRT  
 <213> Salmonella typhimurium

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Thr Met Asn Thr Pro His Gly Asp Ala Ile Thr Val Phe Asp Leu Arg
20 25 30
Phe Cys Ile Pro Asn Lys Glu Val Met Pro Glu Lys Gly Ile His Thr
35 40 45
Leu Glu His Leu Phe Ala Gly Phe Met Arg Asp His Leu Asn Gly Asn
50 55 60
Gly Val Glu Ile Ile Asp Ile Ser Pro Met Gly Cys Arg Thr Gly Phe
65 70 75 80
Tyr Met Ser Leu Ile Gly Thr Pro Asp Glu Gln Arg Val Ala Asp Ala
85 90 95



Trp Lys Ala Ala Met Ala Asp Val Leu Lys Val Gln Asp Gln Asn Gln  
 100 105 110  
 Ile Pro Glu Leu Asn Val Tyr Gln Cys Gly Thr Tyr Gln Met His Ser  
 115 120 125  
 Leu Ser Glu Ala Gln Asp Ile Ala Arg His Ile Leu Glu Arg Asp Val  
 130 135 140  
 Arg Val Asn Ser Asn Lys Glu Leu Ala Leu Pro Lys Glu Lys Leu Gln  
 145 150 155 160  
 Glu Thr Asp Ile

<210> 13  
 <211> 167  
 <212> PRT  
 <213> Haemophilus influenzae

<400> 13  
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 Ile Thr Val Phe Asp Leu Arg Phe Cys Ile Pro Asn Lys Glu Ile Leu  
 35 40 45  
 Ser Pro Lys Gly Ile His Thr Leu Glu His Leu Phe Ala Gly Phe Met  
 50 55 60  
 Arg Asp His Leu Asn Gly Asp Ser Ile Glu Ile Ile Asp Ile Ser Pro  
 65 70 75 80  
 Met Gly Cys Arg Thr Gly Phe Tyr Met Ser Leu Ile Gly Thr Pro Asn  
 85 90 95  
 Glu Gln Lys Val Ser Glu Ala Trp Leu Ala Ser Met Gln Asp Val Leu  
 100 105 110  
 Gly Val Gln Asp Gln Ala Ser Ile Pro Glu Leu Asn Ile Tyr Gln Cys  
 115 120 125  
 Gly Ser Tyr Thr Glu His Ser Leu Glu Asp Ala His Glu Ile Ala Lys  
 130 135 140  
 Asn Val Ile Ala Arg Gly Ile Gly Val Asn Lys Asn Glu Asp Leu Ser  
 145 150 155 160  
 Leu Asp Asn Ser Leu Leu Lys  
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<210> 14

<211> 155

<212> PRT

<213> *Helicobacter pylori*

<400> 14

Met Lys Thr Pro Lys Met Asn Val Glu Ser Phe Asn Leu Asp His Thr  
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Lys Val Lys Ala Pro Tyr Val Arg Val Ala Asp Arg Lys Lys Gly Val  
20 25 30

Asn Gly Asp Leu Ile Val Lys Tyr Asp Val Arg Phe Lys Gln Pro Asn  
35 40 45

Gln Asp His Met Asp Met Pro Ser Leu His Ser Leu Glu His Leu Val  
50 55 60

Ala Glu Ile Ile Arg Asn His Ala Ser Tyr Val Val Asp Trp Ser Pro  
65 70 75 80

Met Gly Cys Gln Thr Gly Phe Tyr Leu Thr Val Leu Asn His Asp Asn  
85 90 95

Tyr Thr Glu Ile Leu Glu Val Leu Glu Lys Thr Met Gln Asp Val Leu  
100 105 110

Lys Ala Thr Glu Val Pro Ala Ser Asn Glu Lys Gln Cys Gly Trp Ala  
115 120 125

Ala Asn His Thr Leu Glu Gly Ala Lys Asp Leu Ala Arg Ala Phe Leu  
130 135 140

Asp Lys Arg Ala Glu Trp Ser Glu Val Gly Val  
145 150 155

<210> 15

<211> 157

<212> PRT

<213> *Bacillus subtilis*

<400> 15

Met Pro Ser Val Glu Ser Phe Glu Leu Asp His Asn Ala Val Val Ala  
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Pro Tyr Val Arg His Cys Gly Val His Lys Val Gly Thr Asp Gly Val  
20 25 30

Val Asn Lys Phe Asp Ile Arg Phe Cys Gln Pro Asn Lys Gln Ala Met  
35 40 45

Lys Pro Asp Thr Ile His Thr Leu Glu His Leu Leu Ala Phe Thr Ile  
50 55 60

Arg Ser His Ala Glu Lys Tyr Asp His Phe Asp Ile Ile Asp Ile Ser  
65 70 75 80

Pro Met Gly Cys Gln Thr Gly Tyr Tyr Leu Val Val Ser Gly Glu Pro  
85 90 95

Thr Ser Ala Glu Ile Val Asp Leu Leu Glu Asp Thr Met Lys Glu Ala  
100 105 110

Val Glu Ile Thr Glu Ile Pro Ala Ala Asn Glu Lys Gln Cys Gly Gln  
115 120 125

Ala Lys Leu His Asp Leu Glu Gly Ala Lys Arg Leu Met Arg Phe Trp  
130 135 140

Leu Ser Gln Asp Lys Glu Glu Leu Leu Lys Val Phe Gly  
145 150 155

<210> 16

<211> 173

<212> PRT

<213> *Borrelia burgdorferi*

<400> 16

Met Gly Lys Ile Arg Phe Cys Lys Lys Asn Thr Asn Ser Ala Lys Lys  
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Met Lys Lys Ile Thr Ser Phe Thr Ile Asp His Thr Lys Leu Asn Pro  
20 25 30

Gly Ile Tyr Val Ser Arg Lys Asp Thr Phe Glu Asn Val Ile Phe Thr  
35 40 45

Thr Ile Asp Ile Arg Ile Lys Ala Pro Asn Ile Glu Pro Ile Ile Glu  
50 55 60

Asn Ala Ala Ile His Thr Ile Glu His Ile Gly Ala Thr Leu Leu Arg  
65 70 75 80

Asn Asn Glu Val Trp Thr Glu Lys Ile Val Tyr Phe Gly Pro Met Gly  
85 90 95

Cys Arg Thr Gly Phe Tyr Leu Ile Ile Phe Gly Asp Tyr Glu Ser Lys  
100 105 110

Asp Leu Val Asp Leu Val Ser Trp Leu Phe Ser Glu Ile Val Asn Phe  
115 120 125

Ser Glu Pro Ile Pro Gly Ala Ser Asp Lys Glu Cys Gly Asn Tyr Lys  
130 135 140

Glu His Asn Leu Asp Met Ala Lys Tyr Glu Ser Ser Lys Tyr Leu Gln  
145 150 155 160

Ile Leu Asn Asn Ile Lys Glu Glu Asn Leu Lys Tyr Pro  
165 170

<210> 17

&lt;212&gt; PRT

<400> 17

Glu Gln Gln Val Ala Gln Ala Trp Leu Ala Ala Met Gln Asp Val Leu  
100